

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/006553

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C311/08 A61K31/198 A61P37/00 A61P29/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

BEILSTEIN Data, CHEM ABS Data, WPI Data, EP0-Internal, BIOSIS, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 02/083642 A1 (BOEHRINGER INGELHEIM PHARMACEUTICALS, INC., USA) 24 October 2002 (2002-10-24) page 1, line 5 - line 10 claims 12-16; examples 2,16 compounds 5, 6, 9, 12, 14, 16 and 18 in claim 9</p> <p style="text-align: center;">--- -/--</p>	1,3-7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

12 November 2004

Date of mailing of the international search report

07/12/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; KURAGANO, TAKASHI ET AL: "Preparation of 4-phenyl or heterocyclpyrimidine derivatives and herbicides containing the same" retrieved from STN Database accession no. 2002:368459 XP002305419 abstract and RN 425405-26-1 & WO 02/38550 A1 (TAKEDA CHEMICAL INDUSTRIES, LTD., JAPAN) 16 May 2002. (2002-05-16)...</p>	1,7
X	<p>DATABASE CHEMCATS CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; retrieved from STN XP002305420 Order Numbers: BAS 2205541, BAS 2198332, AH-487/15150146, BAS 2953421, BAS 2806906, BAS 2715452, BAS 2205235, BAS 2194878, BAS 2185481, BAS 2185469, BAS 2179571, BAS 0849766, BAS 0849765, BAS 0849650 BAS 0849638, BAS 0849637, BAS 0849636, BAS 0754585, BAS 0754497, BAS 0550686, BAS 0550674, BAS 0550673 & "Interchim Intermediates" 9 July 2002 (2002-07-09), INTERCHIM MONTLUCON, CEDEX, 03103, FRANCE</p>	1
A	<p>DATABASE WPI Section Ch, Week 199951 Derwent Publications Ltd., London, GB; Class B05, AN 1999-594027 XP002305421 -& JP 11 236369 A (KOTOBUKI SEIYAKU CO LTD), 31 August 1999 (1999-08-31) abstract</p>	1-7
A	<p>WO 96/27583 A (RIZZI JAMES P ; PFIZER (US); ROBINSON RALPH P (US)) 12 September 1996 (1996-09-12) page 1, line 3 - line 13; claims; examples</p>	1-7

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 4 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/006553

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02083642	A1	24-10-2002	EP 1381594 A1	21-01-2004
WO 0238550	A1	16-05-2002	JP 2002205986 A	23-07-2002
			AU 2401802 A	21-05-2002
			BR 0115210 A	10-02-2004
			CA 2428120 A1	16-05-2002
			CN 1473155 T	04-02-2004
			EP 1333029 A1	06-08-2003
			US 2004092402 A1	13-05-2004
JP 11236369	A	31-08-1999	NONE	
WO 9627583	A	12-09-1996	AT 211131 T	15-01-2002
			AU 707510 B2	15-07-1999
			AU 5029396 A	23-09-1996
			BR 9607362 A	30-12-1997
			CA 2214720 A1	12-09-1996
			CN 1316419 A	10-10-2001
			CN 1181066 A , B	06-05-1998
			CZ 9702782 A3	11-11-1998
			DE 69618179 D1	31-01-2002
			DE 69618179 T2	22-08-2002
			DK 813520 T3	15-04-2002
			EP 0813520 A1	29-12-1997
			ES 2169794 T3	16-07-2002
			FI 973613 A	05-11-1997
			HU 9800462 A2	28-07-1998
			IL 117343 A	14-08-2002
			JP 11501910 T	16-02-1999
			KR 269046 B1	16-10-2000
			NO 974103 A	05-11-1997
			NZ 303860 A	26-08-1998
			PL 322131 A1	05-01-1998
			PT 813520 T	29-04-2002
			RU 2145597 C1	20-02-2000
			TR 9700913 T1	21-02-1998
			WO 9627583 A1	12-09-1996
			US 5863949 A	26-01-1999
			ZA 9601876 A	16-09-1997